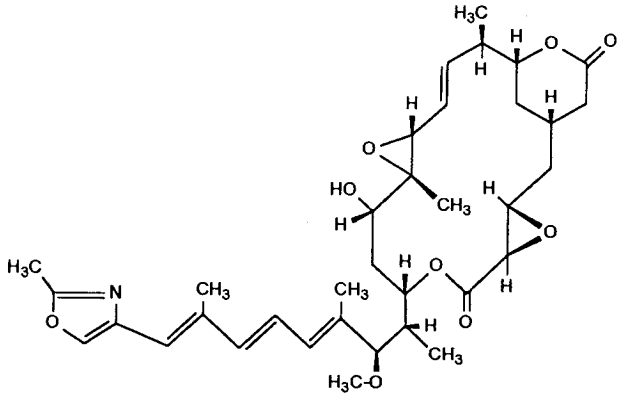
# RHIZOXIN

## NSC - 332598



**Chemical Name:**
10-Hydroxy-8-(2-methoxy-1,3,7-trimethyl-8-(2-methyl-4-oxazolyl)-3,5,7-octatrienyl)-11,16-dimethyl-4,7,12,18-tetraoxatetracyclo(15.3.1.03,5.011,13)heneicos-14-ene-6,19-dione, *(1S-(1R*,3R*,5S*,8R*(1R*,2S*,3E,5E,7E),10R*,11S*,13S*,14E, 16S*,17S*))-*

**Other Names:** WF 1360

**CAS Registry Number:** 90996-54-6

**Molecular Formula:** $C_{35}H_{47}NO_9$ **M.W.:** 625.8

**Approximate Solubility:** (mg/mL)

| | |
|---|---|
| $H_2O$ | < 1 |
| MeOH | > 50 |
| $CHCl_3$ | > 50 |

**Stability:**

**Bulk:**
HPLC analysis indicated that the bulk chemical is unstable under both light and dark conditions at room temperature and at 50 °C. Freezer storage is recommended.

**Solution:**
The compound is unstable in a solution of DMF/$H_2O$ (40/60,v/v) through 72 hours. The $t_{90}$ was 5.2 hours.

**Ultraviolet Absorption:**

(≈8 µg/mL in MeOH)

| $\lambda_{max}$ | ε |
|---|---|
| 323 ± 2nm | 39,750 ± 540 |
| 309 ± 2nm | 53,260 ± 620 |
| 297 ± 2nm | 42,240 ± 595 |

**High Performance Liquid Chromatography:**

| | |
|---|---|
| **Column:** | Alltech Econosphere $C_{18}$, 5µ<br>250 x 4.6 mm i.d. |
| **Mobile Phase:** | $CH_3CN$/pH 7 phosphate buffer, 0.01 M<br>(55/45,v/v) |
| **Flow Rate:** | 1.0 mL/min |
| **Detection:** | UV at 280 nm |

**Sample Preparation:** 11.77 mg of compound was diluted with elutent to give test sample concentrations of about 1, 0.2 and 0.02 mg/mL.

**Internal Standard:** Phenanthrene, 0.01 mg/mL in elutent

**Retention Volume:** 10.4 mL (NSC-332598)

**Optical Rotation:**

(c = 0.5, $CH_3OH$) $[\alpha]_D^{23} = 160 \pm 4°$